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ABSTRACT

Narrative and statistical summaries are presented of the results of the 1986 Residence of First-Time Student survey, which is conducted as part of the Integrated Postsecondary Education Data System by the National Center for Education Statistics. The analysis is based on data reported on degree-seeking students by the 2,743 colleges and universities in the 50 States and the District of Columbia (D.C.) that responded to the survey. In fall 1986, 15% of the first-time freshmen in U.S. higher education institutions crossed a state line to attend college. Net migration is defined as the difference between the number of first-time freshmen who come into a state to attend college and the number who leave their home state to attend college elsewhere. Data are provided on the net migration of all first-time freshmen for each state and D.C. Thirty-one states had a net gain of first-time freshmen in 1986, while 20 states experienced net losses. Additional results include: 34% of all first-time freshmen and 32% of all out-of-state first-time freshmen were enrolled in public four-year institutions; and 86% of the students enrolled in these schools were state residents, with only eight states having fewer than 75% from within the state. (SW)

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ED296673

NATIONAL CENTER FOR EDUCATION STATISTICS

Survey Report June 1988

Residence of First-Time Freshmen in Institutions of Higher Education, Fall 1986

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In the fall of 1986, 15 percent of the first-time freshmen in the Nation's institutions of higher education crossed a State line to attend college.[1] More than half (51 percent) of these out-of-State students enrolled in private 4-year institutions, although these institutions enrolled only 18 percent of all first-time freshmen. In contrast, public 2-year institutions enrolled almost half (47 percent) of all first-time freshmen, but only 14 percent of the out-of-State students. These are some of the highlights from the 1986 Residence of First-Time Students survey, conducted as part of the Integrated Postsecondary Education Data System (IPEDS) by the National Center for Education Statistics (NCES). The data in this report are limited to degree-seeking students who reside and attend college in the 50 States and the District of Columbia.

All Institutions

Throughout the Nation, 85 percent of all first-time freshmen in 1986 attended a college in their home State. This proportion ranged from a high of 94 percent in Illinois, Michigan, and Nevada to a low of 31 percent in the District of Columbia.[2] Only three other States had State residents comprise less than half of their first-time freshmen: Vermont (42 percent), Rhode Island (44 percent), and New Hampshire (49 percent). Students whose State of residence was unknown were assumed to be out-of-State students. This seemed likely for public institutions, where in-State students paid smaller tuitions.

Net migration is the difference between the number of first-time freshmen who come into a State to attend college and the number of first-time freshmen who leave their home State to attend college elsewhere. A State has a net gain if more students migrate into the State than leave the State. A net loss results when more students leave the State to attend college than come into the State. Table 1 and figure 1 show the net migration of all first-time freshmen for each State and the District of Columbia and excludes students from foreign countries and outlying areas.

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Data Series:
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[1]The analysis in this report is limited to data reported by the 2,743 institutions of higher education in the 50 States and the District of Columbia that responded to the survey Residence of First-Time Students, 1986. For more details, see technical appendix. For data on all postsecondary institutions, see Residence of First-Time Students in Postsecondary Education Institutions, Fall 1986, E.D.TABS, CS 88-224.

[2]State summary data for Colorado are not highlighted because of the State's very low response rate.

NOTE: The name of the Center for Education Statistics (CES) has been changed to the National Center for Education Statistics (NCES). Because this report was written before the name was changed, all references are to the Center for Education Statistics or CES.

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Office of Educational Research and Improvement CS 88-225

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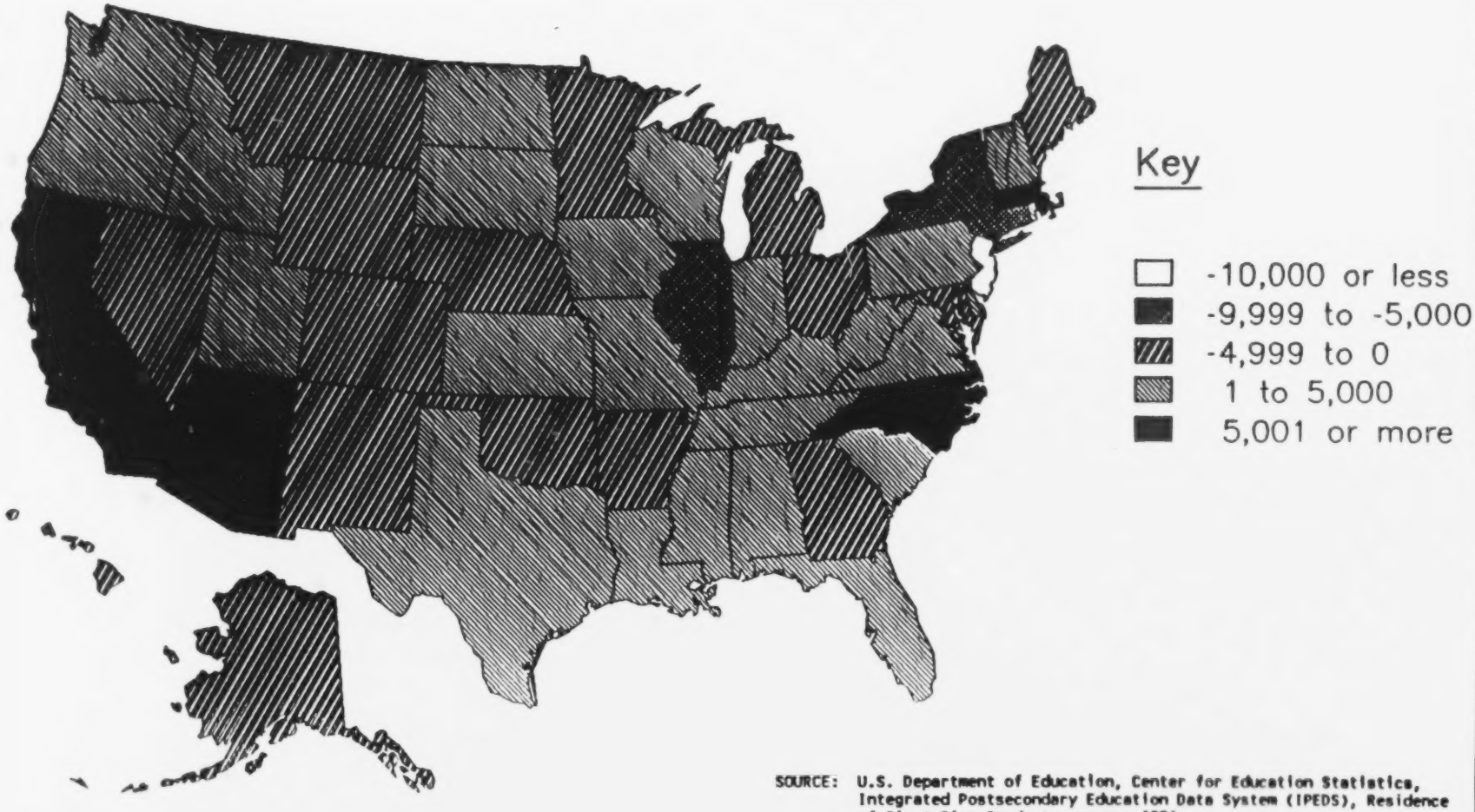
Figure 1.--Net migration of first-time freshmen enrolled in institutions of higher education: Fall 1986



SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Thirty-one States had a net gain of first-time freshmen in 1986, while 20 States experienced net losses. Massachusetts and North Carolina led the way with net gains of over 8,000 students, followed by California with over 7,000. New Jersey had the greatest net loss—almost 22,000—followed by Illinois with nearly 10,000, New York with about 7,000, and Connecticut with over 6,000.

First-Time Freshmen, by Type and Control of Institution

Public institutions, by design, draw most of their students from their home States. However, many private institutions rely on attracting substantial portions of their student bodies from other States. Therefore, the distribution of all first-time freshmen, by type and control of institution, is considerably different from the distribution of out-of-State first-time freshmen (figures 2-4).

Thirty-four percent of all first-time freshmen and 32 percent of all out-of-State first-time freshmen were enrolled in public 4-year institutions. Eighty-six percent of the students enrolled in these schools were State residents, with only 8 States having fewer than 75 percent from within the State. California and Illinois had 96 percent of their students come from within the State, followed by Hawaii, New Jersey, and Texas with 95 percent. Delaware (39 percent) and Vermont (44 percent) had the lowest percentage of State residents enrolled in their 4-year public institutions (table 2).

Although only 18 percent of all first-time freshmen were enrolled in private 4-year institutions, more than half (51 percent) of all out-of-State first-time freshmen were enrolled in these schools. Fifty-eight percent of the students enrolled in these schools were State residents, with only 3 States having more than 75 percent from within the State. Michigan had 83 percent of its students come from within the State, followed by Montana (78 percent), and New Jersey (75 percent).[3] The District of Columbia (6 percent) and Vermont (17 percent) had the lowest percentage of State residents enrolled in their 4-year private institutions (table 3).

Although 47 percent of all first-time freshmen were enrolled in public 2-year institutions, only 14 percent of all out-of-State first-time freshmen were enrolled in these schools. Ninety-five percent of the students enrolled in these schools were State residents, with only 4 States having fewer than 90 percent from within State. Illinois had nearly 100 percent of their first-time freshmen come from within the State, followed by Connecticut, Louisiana, New York, and South Carolina with 99 percent each.[4] New Mexico (86 percent) had the lowest percentage of students who were State residents. New Hampshire and Vermont (87 percent each) and North Dakota (89 percent) also had fewer than 90 percent of their first-time freshmen enrolled in public 2-year schools come from within the State (table 4).

Only 2 percent of all first-time freshmen and 3 percent of all out-of-State first-time freshmen were enrolled in private 2-year institutions (table 5). Seventy-six percent of the students enrolled in these schools were State residents. Because of the relatively small number of students enrolled, State highlights are not described here.

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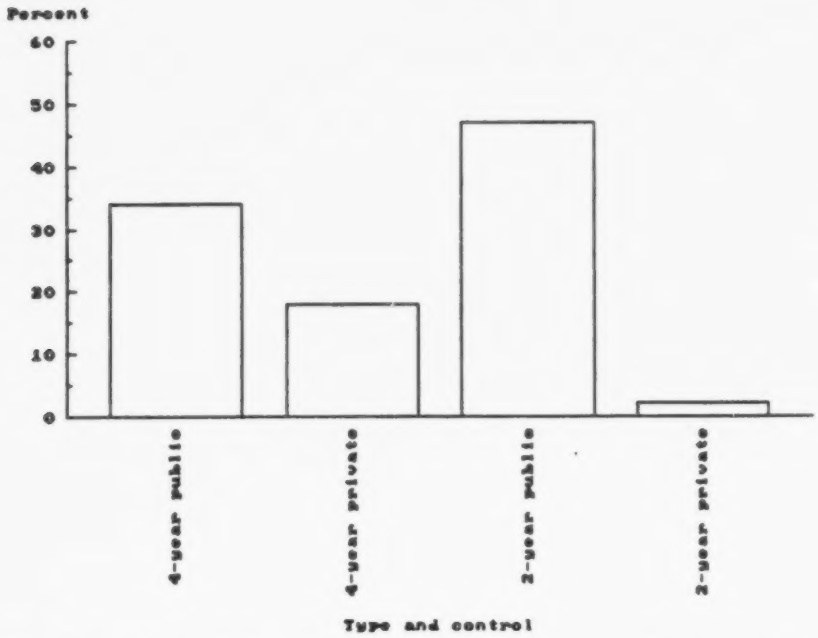
[3]Data for Nevada are not described in the highlights because of the small number of students enrolled.

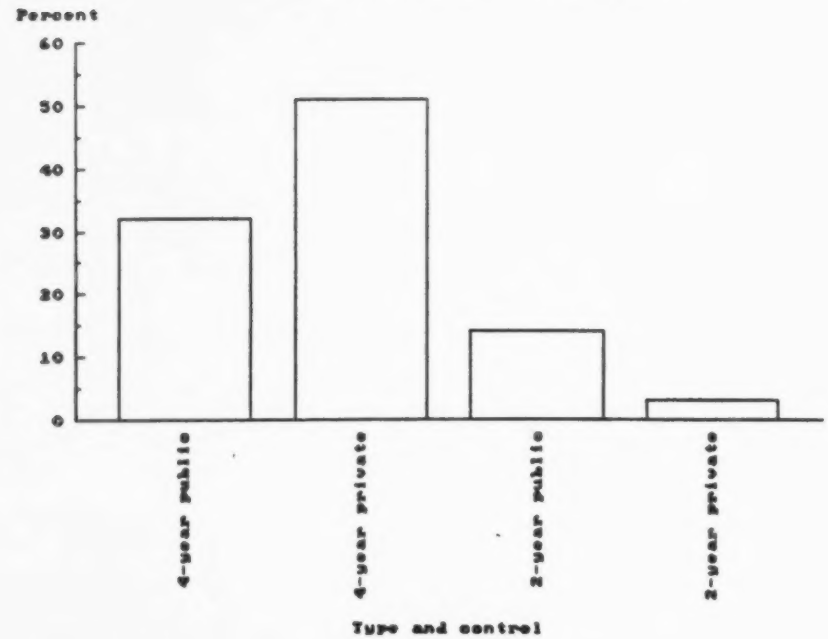
[4]Data for Alaska are not described in the highlights because of the small number of students enrolled.

Figure 2.--Percentage distribution of first-time freshmen, by type and control of institution: Fall 1986



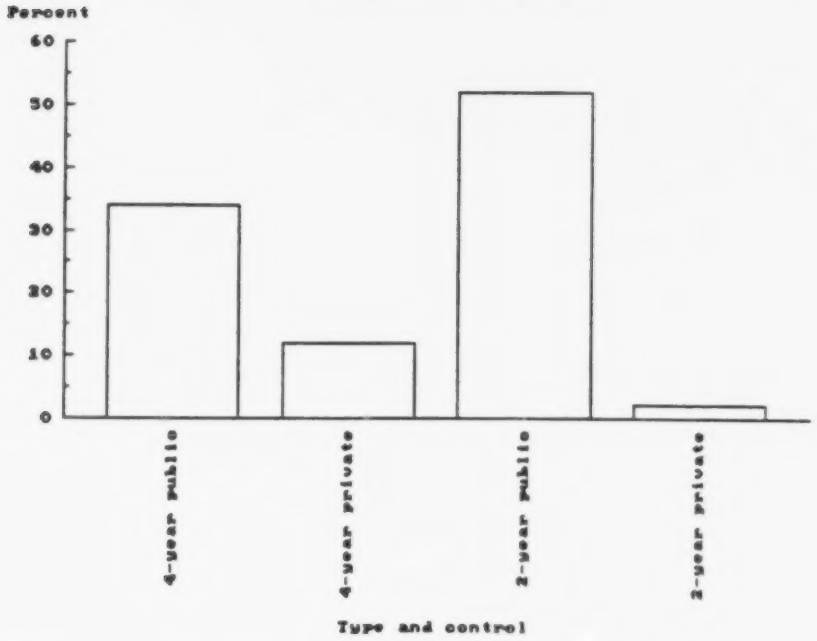
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Figure 3.--Percentage distribution of out-of-State first-time freshmen, by type and control of institution: Fall 1986



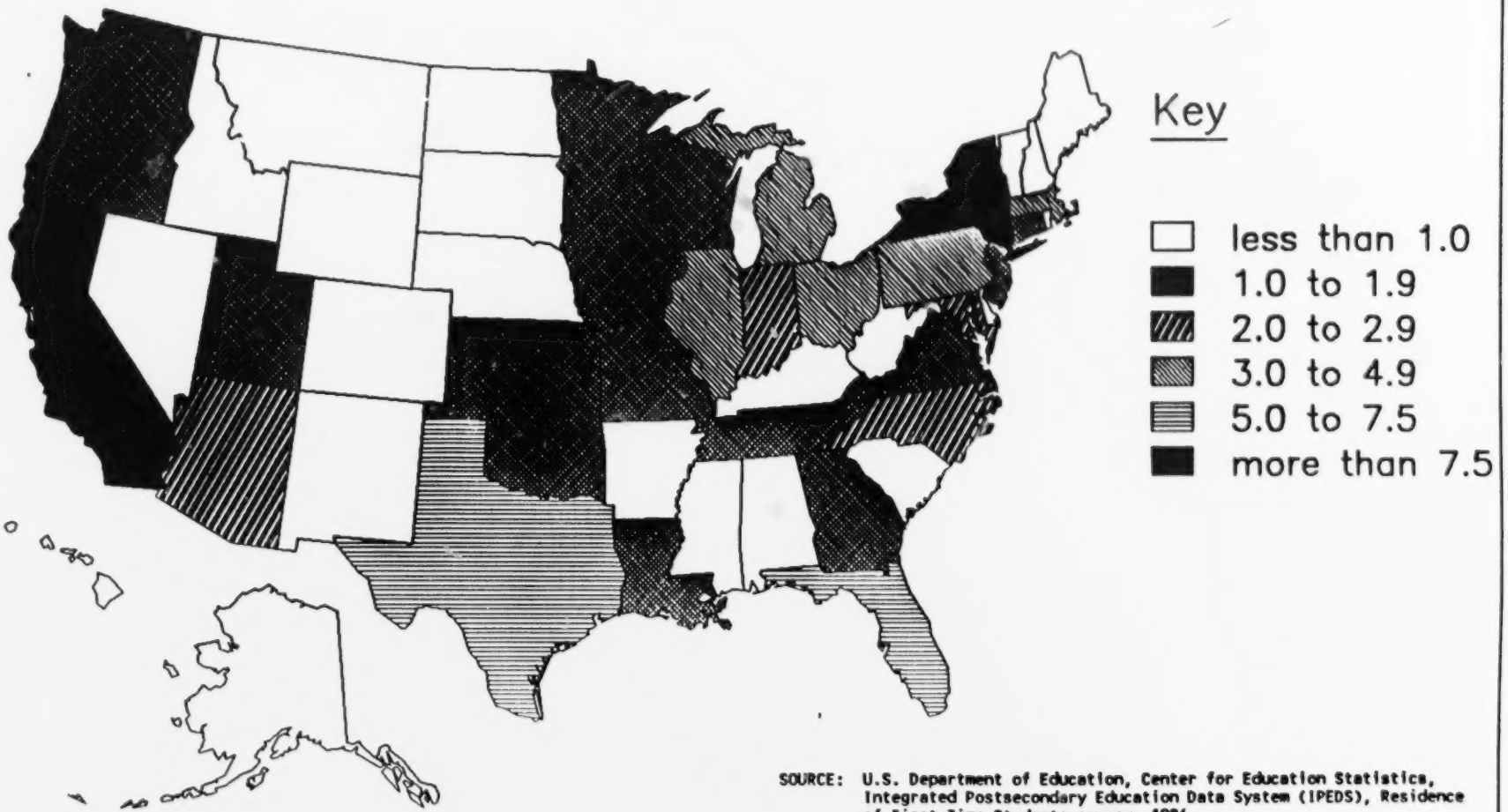
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Figure 4.--Percentage distribution of in-State first-time freshmen, by type and control of institution: Fall 1986



SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Figure 5.--Percentage distribution of foreign first-time students in higher education institutions, by State of attendance: Fall 1986



SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Recent High School Graduates

More than 58 percent of the first-time freshmen enrolled in the fall of 1986 had graduated from high school during the previous 12 months. These first-time freshmen were less likely to attend a school in their home State than all other first-time freshmen. Only 82 percent of these recent high school graduates attended a school in their home State compared to 90 percent for other first-time freshmen. Ninety-five percent of the first-time freshmen who had recently graduated from high school in Michigan came from within the State, followed by California with 93 percent and Montana, Oklahoma, and Texas with 92 percent each. The District of Columbia, with only 12 percent, had the lowest percentage. Three other States were below 50 percent--Vermont (34 percent), Rhode Island (39 percent), and Delaware (45 percent). New Jersey had a net loss of 19,000 students, by far the largest in the Nation, followed by Illinois with a net loss of 9,000 students. North Carolina, with a net gain of almost 8,000 students, and Massachusetts, with over 6,000 students, had the largest net gains in the Nation (table 6).

Of the recent high school graduates who left their home State, 89 percent enrolled in 4-year institutions: 54 percent in private 4-year institutions, and 35 percent in public 4-year institutions. Only 11 percent enrolled in 2-year schools: 8 percent in public 2-year and 3 percent in private 2-year schools.

Foreign Students

There were 80,000 foreign first-time freshmen enrolled at all levels in the Nation's institutions of higher education in 1986. About 28,000, or 34 percent of these students, were first-time freshmen; 33,000, or 41 percent, were graduate or first-professional students, while the remaining 20,000, or 25 percent, were undergraduate transfer students.

Five States accounted for 46 percent of all foreign student enrollment. California, with 22 percent of all foreign students, had the highest percentage, followed by New York with 8 percent; Texas, 6 percent; Florida, 5 percent; and Michigan, 4 percent. Figure 5 shows the distribution of foreign first-time students, by State.

For Further Information

The data tape for the Residence of First-Time Students survey, 1986 is available and may be purchased. Requests should be made to:

Office of Educational Research and Improvement
Information Technology Branch
555 New Jersey Avenue NW
Washington, DC 20208
Telephone 1-800-424-1616 or (202) 357-6522

The Center for Education Statistics will soon release E.D.TABS tables on residence and migration of all first-time students at the undergraduate, graduate, and first-professional levels. For more information about this report or the survey, contact Martin Frankel, Center for Education Statistics, 555 New Jersey Avenue NW, Washington, DC 20208-1404, telephone (202) 357-6352.

This survey report was reviewed by Shelia Drews, District of Columbia Office of Postsecondary Education Research and Assistance; Mary Golladay, National Science Foundation; and Curtis Baker and Paula Knepper, Center for Education Statistics. Their comments are gratefully acknowledged. Other CES staff contributed to the preparation of this publication: Geneva Davis and Elaine Kroe prepared the figures, Austin Lin and Summer Whitener prepared the tables, and Summer Whitener organized the report and conducted the quality control checks.

Table 1.--Residence and migration of first-time freshmen enrolled in all institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	1,959,899	1,672,222	85.3	287,677	287,677	0
Alabama	33,279	27,279	82.0	6,000	2,260	3,740
Alaska	1,349	1,212	89.8	137	1,623	-1,486
Arizona	61,922	53,896	87.0	8,026	2,029	5,997
Arkansas	14,090	12,195	86.6	1,895	2,436	-541
California	262,214	244,471	93.2	17,743	10,586	7,157
Colorado	1,918	268	14.0	1,650	5,094	-3,444
Connecticut	29,426	23,669	80.4	5,757	11,997	-6,240
Delaware	7,305	4,386	60.0	2,919	1,451	1,468
District of Columbia	9,288	2,875	31.0	6,413	1,696	4,717
Florida	60,421	50,079	82.9	10,342	9,848	494
Georgia	32,996	27 132	82.2	5,864	6,381	-517
Hawaii	8,594	7,518	87.5	1,076	1,622	-546
Idaho	8,963	5,707	63.7	3,256	1,643	1,613
Illinois	102,374	95,882	93.7	6,492	16,442	-9,950
Indiana	40,866	32,373	79.2	8,493	4,275	4,218
Iowa	30,150	25,345	84.1	4,805	3,654	1,151
Kansas	22,564	18,713	82.9	3,851	1,906	1,945
Kentucky	23,431	20,365	86.9	3,066	2,583	483
Louisiana	28,249	24,280	85.9	3,969	2,832	1,137
Maine	8,486	6,446	76.0	2,040	2,473	-433
Maryland	40,203	34,331	85.4	5,872	9,459	-3,587
Massachusetts	67,950	47,918	70.5	20,032	11,856	8,176
Michigan	88,748	83,072	93.6	5,676	6,323	-647
Minnesota	39,094	33,370	85.4	5,724	6,862	-1,138
Mississippi	22,090	19,318	87.5	2,772	1,452	1,320
Missouri	34,508	28,270	81.9	6,238	4,816	1,422
Montana	5,580	5,081	91.1	499	1,504	-1,005
Nebraska	14,921	13,000	87.1	1,921	2,048	-127
Nevada	6,312	5,915	93.7	397	1,311	-914
New Hampshire	7,896	3,907	49.5	3,989	3,341	648
New Jersey	41,997	38,631	92.0	3,366	25,313	-21,947
New Mexico	8,511	7,281	85.5	1,230	1,699	-469
New York	134,979	116,513	86.3	18,466	25,071	-6,605
North Carolina	65,890	54,509	82.7	11,381	2,941	8,440
North Dakota	7,991	6,138	76.8	1,853	1,042	811
Ohio	71,716	62,631	87.3	9,085	9,658	-573
Oklahoma	27,278	25,346	92.9	1,932	2,251	-319
Oregon	22,753	19,332	85.0	3,421	2,598	823
Pennsylvania	85,421	67,908	79.5	17,513	13,830	3,683
Rhode Island	12,224	5,362	43.9	6,862	2,378	4,484
South Carolina	27,499	22,866	83.2	4,633	2,878	1,755
South Dakota	5,858	4,479	76.5	1,379	1,334	45
Tennessee	29,844	23,129	77.5	6,715	3,894	2,821
Texas	105,220	96,522	91.7	8,698	6,150	2,548
Utah	14,214	9,984	70.2	4,230	1,125	3,105
Vermont	6,752	2,846	42.2	3,906	1,485	2,421
Virginia	38,109	28,767	75.5	9,342	8,126	1,216
Washington	68,086	61,656	90.6	6,430	4,210	2,220
West Virginia	13,935	11,014	79.0	2,921	1,691	1,230
Wisconsin	51,923	45,140	86.9	6,783	4,674	2,109
Wyoming	4,512	3,895	86.3	617	951	-334
State unknown*	0	0	--	0	22,575	-22,575

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 2.--Residence and migration of first-time freshmen enrolled in public 4-year institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	664,183	573,389	86.3	90,794	90,794	0
Alabama	12,972	9,383	72.3	3,589	753	2,836
Alaska	1,004	913	90.9	91	709	-618
Arizona	9,244	5,375	58.1	3,869	373	3,496
Arkansas	7,830	6,989	89.3	841	680	161
California	45,927	43,964	95.7	1,963	3,248	-1,285
Colorado	1,328	28	2.1	1,300	1,568	-268
Connecticut	8,496	7,515	88.5	981	2,389	-1,408
Delaware	3,830	1,506	39.3	2,324	546	1,778
District of Columbia	2,821	2,455	87.0	366	570	-204
Florida	12,811	10,530	82.2	2,281	3,397	-1,116
Georgia	17,140	15,136	88.3	2,004	2,550	-546
Hawaii	2,137	2,022	94.6	115	490	-375
Idaho	3,259	2,588	79.4	671	481	190
Illinois	25,795	24,772	96.0	1,023	7,884	-6,861
Indiana	25,127	21,364	85.0	3,763	1,193	2,570
Iowa	9,658	7,566	78.3	2,092	1,782	310
Kansas	10,157	8,109	79.8	2,048	527	1,521
Kentucky	12,920	11,019	85.3	1,901	788	1,113
Louisiana	22,062	20,197	91.5	1,865	1,066	799
Maine	4,283	3,617	84.5	666	514	152
Maryland	12,176	8,780	72.1	3,396	3,384	12
Massachusetts	14,116	12,994	92.1	1,122	2,874	-1,752
Michigan	32,174	29,251	90.9	2,923	2,289	634
Minnesota	15,261	12,770	83.7	2,491	4,083	-1,592
Mississippi	7,011	5,447	77.7	1,564	622	942
Missouri	17,042	15,076	88.5	1,966	2,031	-65
Montana	4,205	3,859	91.8	346	298	48
Nebraska	7,550	6,941	91.9	609	836	-227
Nevada	2,743	2,408	87.8	335	431	-96
New Hampshire	4,223	2,390	56.6	1,833	525	1,308
New Jersey	14,592	13,825	94.7	767	7,522	-6,755
New Mexico	5,379	4,612	85.7	767	484	283
New York	33,307	30,731	92.3	2,576	7,283	-4,707
North Carolina	22,112	18,184	82.2	3,928	1,027	2,901
North Dakota	4,369	3,118	71.4	1,251	501	750
Ohio	36,034	32,893	91.3	3,141	3,657	-516
Oklahoma	12,249	11,126	90.8	1,123	664	459
Oregon	7,346	6,195	84.3	1,151	597	554
Pennsylvania	26,583	22,564	84.9	4,019	4,942	-923
Rhode Island	3,075	2,082	67.7	993	456	537
South Carolina	10,637	8,304	78.1	2,333	973	1,360
South Dakota	4,143	3,481	84.0	662	695	-33
Tennessee	13,680	12,031	87.9	1,649	1,770	-121
Texas	42,883	40,646	94.8	2,237	2,141	96
Utah	6,722	5,975	88.9	747	148	599
Vermont	3,073	1,349	43.9	1,724	320	1,404
Virginia	18,301	13,672	74.7	4,629	2,926	1,703
Washington	10,010	9,195	91.9	815	988	-173
West Virginia	9,040	7,166	79.3	1,874	519	1,355
Wisconsin	23,965	20,191	84.3	3,774	1,766	2,008
Wyoming	1,381	1,085	78.6	296	324	-28
State unknown*	0	0	--	0	2,210	-2,210

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 3.--Residence and migration of first-time freshmen enrolled in private 4-year institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	348,256	201,299	57.8	146,957	146,957	0
Alabama	3,447	1,941	56.3	1,506	1,047	459
Alaska	162	116	71.6	46	617	-571
Arizona	1,532	685	44.7	847	1,286	-439
Arkansas	2,141	1,378	64.4	763	788	-25
California	15,309	11,125	72.7	4,184	5,821	-1,637
Colorado	549	235	42.8	314	2,766	-2,452
Connecticut	7,773	3,275	42.1	4,498	8,432	-3,934
Delaware	1,236	777	62.9	459	799	-340
District of Columbia	6,467	420	6.5	6,047	843	5,204
Florida	11,097	5,556	50.1	5,541	5,192	349
Georgia	6,315	3,109	49.2	3,206	2,874	332
Hawaii	1,966	1,150	58.5	816	924	-108
Idaho	276	81	29.3	195	799	-604
Illinois	17,629	12,509	71.0	5,120	7,163	-2,043
Indiana	9,029	4,462	49.4	4,567	2,315	2,252
Iowa	5,439	3,463	63.7	1,976	1,467	509
Kansas	1,563	858	54.9	705	1,104	-399
Kentucky	4,041	3,009	74.5	1,032	1,484	-452
Louisiana	4,370	2,282	52.2	2,088	1,113	975
Maine	2,555	1,218	47.7	1,337	1,659	-322
Maryland	3,677	1,801	49.0	1,876	5,454	-3,578
Massachusetts	32,411	16,270	50.2	16,141	8,304	7,837
Michigan	9,529	7,915	83.1	1,614	3,273	-1659
Minnesota	7,087	4,616	65.1	2,471	2,114	357
Mississippi	1,149	810	70.5	339	636	-297
Missouri	8,462	4,662	55.1	3,800	2,134	1,666
Montana	585	456	77.9	129	773	-644
Nebraska	2,399	1,357	56.6	1,042	909	133
Nevada	45	45	100.0	0	497	-497
New Hampshire	2,464	511	20.7	1,953	1,915	38
New Jersey	6,896	5,197	75.4	1,699	16,352	-14,653
New Mexico	106	53	50.0	53	655	-602
New York	51,072	36,355	71.2	14,717	16,083	-1,366
North Carolina	11,080	5,452	49.2	5,628	1,498	4,130
North Dakota	487	216	44.4	271	331	-60
Ohio	16,317	10,720	65.7	5,597	5,013	584
Oklahoma	1,793	1,283	71.6	510	1,029	-519
Oregon	2,840	1,366	48.1	1,474	1,587	-113
Pennsylvania	29,274	16,959	57.9	12,315	7,621	4,694
Rhode Island	7,070	1,314	18.6	5,756	1,496	4,260
South Carolina	4,798	2,792	58.2	2,006	1,408	598
South Dakota	1,515	813	53.7	702	400	302
Tennessee	7,896	3,120	39.5	4,776	1,633	3,143
Texas	12,173	8,690	71.4	3,483	3,122	361
Utah	4,612	1,335	28.9	3,277	388	2,889
Vermont	2,269	381	16.8	1,888	904	984
Virginia	5,776	2,199	38.1	3,577	4,377	-800
Washington	3,943	2,393	60.7	1,550	2,238	-688
West Virginia	1,455	721	49.6	734	763	-29
Wisconsin	6,180	3,848	62.3	2,332	2,273	59
Wyoming	0	0	0.0	0	398	-398
State unknown*	0	0	--	0	2,886	-2,886

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 4.--Residence and migration of first-time freshmen enrolled in public 2-year institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	913,577	871,942	95.4	41,635	41,635	0
Alabama	16,156	15,405	95.4	751	354	397
Alaska	183	183	100.0	0	265	-265
Arizona	51,146	47,836	93.5	3,310	231	3,079
Arkansas	4,003	3,732	93.2	271	935	-664
California	200,253	188,786	94.3	11,467	1,088	10,379
Colorado	0	0	0.0	0	575	-575
Connecticut	12,599	12,507	99.3	92	428	-336
Delaware	2,239	2,103	93.9	136	67	69
District of Columbia	0	0	0.0	0	264	-264
Florida	36,317	33,931	93.4	2,386	947	1,439
Georgia	8,075	7,589	94.0	486	731	-245
Hawaii	4,491	4,346	96.8	145	164	-19
Idaho	2,084	1,924	92.3	160	351	-191
Illinois	55,807	55,567	99.6	240	1,201	-961
Indiana	6,512	6,380	98.0	132	638	-506
Iowa	14,500	13,832	95.4	668	313	355
Kansas	10,449	9,592	91.8	857	221	636
Kentucky	5,749	5,653	98.3	96	266	-170
Louisiana	1,817	1,801	99.1	16	615	-599
Maine	1,515	1,478	97.6	37	120	-83
Maryland	24,329	23,736	97.6	593	462	131
Massachusetts	15,750	14,740	93.6	1,010	476	534
Michigan	45,193	44,123	97.6	1,070	648	422
Minnesota	16,512	15,756	95.4	756	575	181
Mississippi	13,358	12,540	93.9	818	166	652
Missouri	8,385	8,164	97.4	221	535	-314
Montana	559	535	95.7	24	330	-306
Nebraska	4,826	4,675	96.9	151	248	-97
Nevada	3,524	3,462	98.2	62	304	-242
New Hampshire	1,101	953	86.6	148	656	-508
New Jersey	20,507	19,609	95.6	898	852	46
New Mexico	3,026	2,616	86.5	410	522	-112
New York	47,508	46,895	98.7	613	1,065	-452
North Carolina	30,683	29,497	96.1	1,186	287	899
North Dakota	3,089	2,758	89.3	331	196	135
Ohio	19,187	18,862	98.3	325	857	-532
Oklahoma	12,944	12,686	98.0	258	484	-226
Oregon	12,567	11,771	93.7	796	240	556
Pennsylvania	27,011	26,363	97.6	648	1,077	-429
Rhode Island	2,079	1,966	94.6	113	247	-134
South Carolina	10,580	10,453	98.8	127	362	-235
South Dakota	0	0	0.0	0	220	-220
Tennessee	7,607	7,490	98.5	117	408	-291
Texas	49,923	46,960	94.1	2,963	697	2,266
Utah	2,880	2,674	92.8	206	158	48
Vermont	680	593	87.2	87	144	-57
Virginia	13,835	12,757	92.2	1,078	448	630
Washington	54,133	50,068	92.5	4,065	677	3,388
West Virginia	2,997	2,684	89.6	313	387	-74
Wisconsin	21,778	21,101	96.9	677	539	138
Wyoming	3,131	2,810	89.7	321	126	195
State unknown*	0	0	--	0	17,468	-17,468

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 5.--Residence and migration of first-time freshmen enrolled in private 2-year institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	33,883	25,592	75.5	8,291	8,291	0
Alabama	704	550	78.1	154	106	48
Alaska	0	0	0.0	0	32	-32
Arizona	0	0	0.0	0	139	-139
Arkansas	116	96	82.8	20	33	-13
California	725	596	82.2	129	429	-300
Colorado	41	5	12.2	36	185	-149
Connecticut	558	372	66.7	186	748	-562
Delaware	0	0	0.0	0	39	-39
District of Columbia	0	0	0.0	0	19	-19
Florida	196	62	31.6	134	312	-178
Georgia	1,466	1,298	88.5	168	226	-58
Hawaii	0	0	0.0	0	44	-44
Idaho	3,344	1,114	33.3	2,230	12	2,218
Illinois	3,143	3,034	96.5	109	194	-85
Indiana	198	167	84.3	31	129	-98
Iowa	553	484	87.5	69	92	-23
Kansas	395	154	39.0	241	54	187
Kentucky	721	684	94.9	37	45	-8
Louisiana	0	0	0.0	0	38	-38
Maine	133	133	100.0	0	180	-180
Maryland	21	14	66.7	7	159	-152
Massachusetts	5,673	3,914	69.0	1,759	202	1,557
Michigan	1,852	1,783	96.3	69	113	-44
Minnesota	234	228	97.4	6	90	-84
Mississippi	572	521	91.1	51	28	23
Missouri	619	368	59.5	251	116	135
Montana	231	231	100.0	0	103	-103
Nebraska	146	27	18.5	119	55	64
Nevada	0	0	0.0	0	79	-79
New Hampshire	108	53	49.1	55	245	-190
New Jersey	2	0	0.0	2	587	-585
New Mexico	0	0	0.0	0	38	-38
New York	3,092	2,532	81.9	560	640	-80
North Carolina	2,015	1,376	68.3	639	129	510
North Dakota	46	46	100.0	0	14	-14
Ohio	178	156	87.6	22	131	-109
Oklahoma	292	251	86.0	41	74	-33
Oregon	0	0	0.0	0	174	-174
Pennsylvania	2,553	2,022	79.2	531	190	341
Rhode Island	0	0	0.0	0	179	-179
South Carolina	1,484	1,317	88.7	167	135	32
South Dakota	200	185	92.5	15	19	-4
Tennessee	661	488	73.8	173	83	90
Texas	241	226	93.8	15	190	-175
Utah	0	0	0.0	0	431	-431
Vermont	730	523	71.6	207	117	90
Virginia	197	139	70.6	58	375	-317
Washington	0	0	0.0	0	307	-307
West Virginia	443	443	100.0	0	22	-22
Wisconsin	0	0	0.0	0	96	-96
Wyoming	0	0	0.0	0	103	-103
State unknown*	0	0	--	0	11	-11

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 6.--Residence and migration of first-time freshmen who graduated from high school during the previous 12 months, in all institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	1,145,681	942,302	82.2	203,779	203,379	0
Alabama	18,153	14,666	80.8	3,487	1,592	1,895
Alaska	113	73	64.6	40	1,046	-1,006
Arizona	14,975	11,254	75.2	3,721	1,230	2,491
Arkansas	6,354	5,357	84.3	997	1,492	-495
California	151,550	140,995	93.0	10,555	6,431	4,124
Colorado	1,855	252	13.6	1,603	3,529	-1,926
Connecticut	14,634	9,555	65.3	5,079	9,270	-4,191
Delaware	4,871	2,205	45.3	2,666	1,142	1,524
District of Columbia	5,417	656	12.1	4,761	1,114	3,647
Florida	41,280	33,968	82.3	7,312	7,143	169
Georgia	27,361	22,390	81.8	4,971	4,737	234
Hawaii	2,745	2,214	80.7	531	1,227	-696
Idaho	6,890	4,540	65.9	2,350	807	1,543
Illinois	46,884	42,440	90.5	4,444	13,133	-8,689
Indiana	27,390	21,277	77.7	6,113	2,947	3,166
Iowa	19,830	16,068	81.0	3,762	2,858	904
Kansas	14,691	11,509	78.3	3,182	1,282	1,900
Kentucky	16,908	14,379	85.0	2,529	1,826	703
Louisiana	22,138	18,585	84.0	3,553	1,858	1,695
Maine	2,851	1,569	55.0	1,282	1,862	-580
Maryland	17,090	13,760	80.5	3,330	7,790	-4,460
Massachusetts	42,275	26,885	63.6	15,390	9,184	6,206
Michigan	46,341	43,995	94.9	2,346	4,589	-2,243
Minnesota	22,116	18,125	82.0	3,991	5,556	-1,565
Mississippi	12,257	10,593	86.4	1,664	1,016	648
Missouri	24,413	19,874	81.4	4,539	3,633	906
Montana	1,990	1,835	92.2	155	1,004	-849
Nebraska	10,999	9,334	84.9	1,665	1,581	84
Nevada	1,652	1,458	88.3	194	812	-618
New Hampshire	5,516	2,839	51.5	2,677	2,174	503
New Jersey	17,628	15,935	90.4	1,693	20,582	-18,889
New Mexico	5,975	5,032	84.2	943	1,038	-95
New York	92,359	75,879	82.2	16,480	18,664	-2,184
North Carolina	42,527	32,998	77.6	9,529	2,005	7,524
North Dakota	5,669	4,108	72.5	1,561	407	1,154
Ohio	44,597	38,332	86.0	6,265	7,079	-814
Oklahoma	14,958	13,828	92.4	1,130	1,509	-379
Oregon	13,151	10,845	82.5	2,306	1,660	646
Pennsylvania	60,919	46,257	75.9	14,662	10,543	4,119
Rhode Island	6,983	2,727	39.1	4,256	1,616	2,640
South Carolina	15,988	12,874	80.5	3,114	2,088	1,026
South Dakota	4,156	2,995	72.1	1,161	953	208
Tennessee	21,112	16,271	77.1	4,841	2,933	1,908
Texas	63,890	58,859	92.1	5,031	4,311	720
Utah	3,791	3,295	86.9	496	788	-292
Vermont	4,783	1,613	33.7	3,170	1,048	2,122
Virginia	28,239	21,218	75.1	7,021	6,105	916
Washington	22,087	20,069	90.9	2,018	2,559	-541
West Virginia	10,004	7,475	74.7	2,529	1,142	1,387
Wisconsin	32,780	26,997	82.4	5,783	3,454	2,329
Wyoming	2,546	2,045	80.3	501	625	-124
State unknown*	0	0	--	0	8,405	-8,405

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 7.--Residence and migration of first-time freshmen who graduated from high school during the previous 12 months, in public 4-year institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	508,811	438,030	86.1	70,781	70,781	0
Alabama	7,697	5,769	75.0	1,928	559	1,369
Alaska	0	0	0.0	0	560	-560
Arizona	5,068	2,725	53.8	2,343	286	2,057
Arkansas	3,336	3,049	91.4	287	510	-223
California	44,640	42,759	95.8	1,881	2,144	-263
Colorado	1,328	28	2.1	1,300	1,284	16
Connecticut	3,354	2,834	84.5	520	1,664	-1,144
Delaware	3,537	1,265	35.8	2,272	426	1,846
District of Columbia	444	360	81.1	84	361	-277
Florida	12,480	10,279	82.4	2,201	2,499	-298
Georgia	15,842	13,913	87.8	1,929	2,127	-198
Hawaii	1,921	1,827	95.1	94	428	-334
Idaho	2,291	1,977	86.3	314	346	-32
Illinois	15,224	14,730	96.8	494	6,860	-6,366
Indiana	20,448	16,873	82.5	3,575	928	2,647
Iowa	9,095	7,061	77.6	2,034	1,593	441
Kansas	8,225	6,523	79.3	1,702	424	1,278
Kentucky	10,453	8,771	83.9	1,682	632	1,050
Louisiana	17,111	15,543	90.8	1,568	667	901
Maine	91	53	58.2	38	391	-353
Maryland	4,550	3,330	73.2	1,220	2,989	-1,769
Massachusetts	11,477	10,520	91.7	957	1,900	-943
Michigan	21,869	20,805	95.1	1,064	1,915	-851
Minnesota	11,659	9,981	85.6	1,678	3,664	-1,986
Mississippi	3,375	2,446	72.5	929	463	466
Missouri	15,035	13,186	87.7	1,849	1,662	187
Montana	1,699	1,553	91.4	146	223	-77
Nebraska	6,858	6,306	92.0	552	727	-175
Nevada	1,409	1,225	86.9	184	359	-175
New Hampshire	3,715	2,099	56.5	1,616	365	1,251
New Jersey	4,601	4,501	97.8	100	6,014	-5,914
New Mexico	4,313	3,675	85.2	638	381	257
New York	24,134	22,109	91.6	2,025	5,172	-3,147
North Carolina	20,440	16,708	81.7	3,732	762	2,970
North Dakota	3,679	2,577	70.0	1,102	137	965
Ohio	28,223	25,574	90.6	2,649	2,939	-290
Oklahoma	9,759	8,796	90.1	963	513	450
Oregon	6,467	5,444	84.2	1,023	483	540
Pennsylvania	22,945	19,300	84.1	3,645	3,939	-294
Rhode Island	654	591	90.4	63	340	-277
South Carolina	7,850	5,971	76.1	1,879	821	1,058
South Dakota	3,192	2,595	81.3	597	523	74
Tennessee	11,124	9,719	87.4	1,405	1,377	28
Texas	35,549	33,706	94.8	1,843	1,697	146
Utah	3,741	3,246	86.8	495	123	372
Vermont	2,839	1,170	41.2	1,669	210	1,459
Virginia	17,089	12,778	74.8	4,311	2,374	1,937
Washington	8,089	7,392	91.4	697	750	-53
West Virginia	7,372	5,654	76.7	1,718	450	1,268
Wisconsin	21,519	17,973	83.5	3,546	1,456	2,090
Wyoming	1,001	761	76.0	240	244	-4
State unknown*	0	0	--	0	1,120	-1,120

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 8.--Residence and migration of first-time freshmen who graduated from high school during the previous 12 months, in private 4-year institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	242,629	132,881	54.8	109,748	109,748	0
Alabama	2,732	1,511	55.3	1,221	768	453
Alaska	113	73	64.6	40	354	-314
Arizona	688	134	19.5	554	711	-157
Arkansas	1,663	1,031	62.0	632	547	85
California	6,697	4,645	69.4	2,052	3,666	-1,614
Colorado	527	224	42.5	303	1,797	-1,494
Connecticut	6,963	2,587	37.2	4,376	6,910	-2,534
Delaware	578	234	40.5	344	654	-310
District of Columbia	4,973	296	6.0	4,677	655	4,022
Florida	6,977	3,300	47.3	3,677	4,024	-347
Georgia	4,236	1,647	38.9	2,589	2,217	372
Hawaii	824	387	47.0	437	661	-224
Idaho	240	70	29.2	170	314	-144
Illinois	11,867	8,017	67.6	3,850	5,669	-1,819
Indiana	5,670	3,196	56.4	2,474	1,676	798
Iowa	4,321	2,839	65.7	1,482	1,100	382
Kansas	1,418	755	53.2	663	740	-77
Kentucky	2,981	2,210	74.1	771	1,064	-293
Louisiana	3,997	2,023	50.6	1,974	829	1,145
Maine	1,864	644	34.5	1,220	1,302	-82
Maryland	3,467	1,636	47.2	1,831	4,462	-2,631
Massachusetts	21,122	8,152	38.6	12,970	6,865	6,105
Michigan	5,979	4,945	82.7	1,034	2,367	-1,333
Minnesota	5,598	3,536	63.2	2,062	1,590	472
Mississippi	439	247	56.3	192	455	-263
Missouri	5,487	3,121	56.9	2,366	1,644	722
Montana	5	5	100.0	0	492	-492
Nebraska	2,083	1,157	55.5	926	670	256
Nevada	0	0	0.0	0	239	-239
New Hampshire	1,168	242	20.7	926	1,384	-458
New Jersey	5,633	4,088	72.6	1,545	13,597	-12,052
New Mexico	71	35	49.3	36	407	-371
New York	42,894	29,275	68.3	13,619	12,581	1,038
North Carolina	9,836	4,743	48.2	5,093	1,078	4,015
North Dakota	431	207	48.0	224	173	51
Ohio	10,180	6,648	65.3	3,532	3,725	-193
Oklahoma	2	2	100.0	0	748	-748
Oregon	2,069	1,043	50.4	1,026	925	101
Pennsylvania	21,646	11,625	53.7	10,021	6,012	4,009
Rhode Island	4,890	773	15.8	4,117	1,164	2,953
South Carolina	3,421	2,285	66.8	1,136	1,073	63
South Dakota	905	354	39.1	551	284	267
Tennessee	5,230	1,983	37.9	3,247	1,304	1,943
Texas	6,837	4,467	65.3	2,370	2,186	184
Utah	50	49	98.0	1	264	-263
Vermont	1,596	189	11.8	1,407	683	724
Virginia	4,288	1,907	44.5	2,381	3,235	-854
Washington	2,027	1,237	61.0	790	1,338	-548
West Virginia	1,237	564	45.6	673	566	107
Wisconsin	4,709	2,543	54.0	2,166	1,706	460
Wyoming	0	0	0.0	0	248	-248
State unknown*	0	0	--	0	625	-625

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 9.--Residence and migration of first-time freshmen who graduated from high school during the previous 12 months, in public 2-year institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	373,654	356,998	95.5	16,656	16,656	0
Alabama	7,252	7,062	97.4	190	183	7
Alaska	0	0	0.0	0	107	-107
Arizona	9,219	8,395	91.1	824	128	696
Arkansas	1,316	1,249	94.9	67	409	-342
California	99,650	93,108	93.4	6,542	302	6,240
Colorado	0	0	0.0	0	294	-294
Connecticut	3,808	3,795	99.7	13	214	-201
Delaware	756	706	93.4	50	27	23
District of Columbia	0	0	0.0	0	82	-82
Florida	21,647	20,335	93.9	1,312	359	953
Georgia	6,322	6,021	95.2	301	251	50
Hawaii	0	0	0.0	0	97	-97
Idaho	1,810	1,678	92.7	132	137	-5
Illinois	18,387	18,347	99.8	40	453	-413
Indiana	1,154	1,119	97.0	35	250	-215
Iowa	6,117	5,894	96.4	223	101	122
Kansas	4,767	4,149	87.0	618	75	543
Kentucky	2,933	2,888	98.5	45	95	-50
Louisiana	1,030	1,019	98.9	11	336	-325
Maine	847	823	97.2	24	48	-24
Maryland	9,055	8,783	97.0	272	209	63
Massachusetts	6,842	6,537	95.5	305	282	23
Michigan	17,567	17,374	98.9	193	225	-32
Minnesota	4,794	4,545	94.8	249	241	8
Mississippi	8,238	7,710	93.6	528	78	450
Missouri	3,546	3,470	97.9	76	230	-154
Montana	266	257	96.6	9	210	-201
Nebraska	1,933	1,850	95.7	83	142	-59
Nevada	243	233	95.9	10	155	-145
New Hampshire	570	474	83.2	96	269	-173
New Jersey	7,394	7,346	99.4	48	484	-436
New Mexico	1,591	1,322	83.1	269	218	51
New York	23,057	22,731	98.6	326	437	-111
North Carolina	10,467	10,273	98.1	194	79	115
North Dakota	1,559	1,324	84.9	235	89	146
Ohio	6,191	6,107	98.6	84	313	-229
Oklahoma	5,058	4,905	97.0	153	185	-32
Oregon	4,615	4,358	94.4	257	108	149
Pennsylvania	14,374	13,854	96.4	520	457	63
Rhode Island	1,439	1,363	94.7	76	22	54
South Carolina	4,106	4,071	99.1	35	83	-48
South Dakota	0	0	0.0	0	131	-131
Tennessee	4,288	4,212	98.2	76	188	-112
Texas	21,278	20,475	96.2	803	285	518
Utah	0	0	0.0	0	45	-45
Vermont	238	180	75.6	58	69	-11
Virginia	6,697	6,424	95.9	273	206	67
Washington	11,971	11,440	95.6	531	225	306
West Virginia	1,165	1,027	88.2	138	112	26
Wisconsin	6,552	6,481	98.9	71	223	-152
Wyoming	1,545	1,284	83.1	261	48	213
State unknown*	0	0	--	0	6,660	-6,660

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 10.--Residence and migration of first-time freshmen who graduated from high school during the previous 12 months, in private 2-year institutions of higher education, by State: Fall 1986

50 States and D.C.	Total	Residents of State	Percent residents	Migration		
				Into State	Out of State	Net
Total	20,587	14,393	69.9	6,194	6,194	0
Alabama	472	324	68.6	148	82	66
Alaska	0	0	0.0	0	25	-25
Arizona	0	0	0.0	0	105	-105
Arkansas	39	28	71.8	11	26	-15
California	563	483	85.8	80	319	-239
Colorado	0	0	0.0	0	154	-154
Connecticut	509	339	66.6	170	482	-312
Delaware	0	0	0.0	0	35	-35
District of Columbia	0	0	0.0	0	16	-16
Florida	176	54	30.7	122	261	-139
Georgia	961	809	84.2	152	142	10
Hawaii	0	0	0.0	0	41	-41
Idaho	2,549	815	32.0	1,734	10	1,724
Illinois	1,406	1,346	95.7	60	151	-91
Indiana	118	89	75.4	29	93	-64
Iowa	297	274	92.3	23	64	-41
Kansas	281	82	29.2	199	43	156
Kentucky	541	510	94.3	31	35	-4
Louisiana	0	0	0.0	0	26	-26
Maine	49	49	100.0	0	121	-121
Maryland	18	11	61.1	7	130	-123
Massachusetts	2,834	1,676	59.1	1,158	137	1,021
Michigan	926	871	94.1	55	82	-27
Minnesota	65	63	96.9	2	61	-59
Mississippi	205	190	92.7	15	20	-5
Missouri	345	97	28.1	248	97	151
Montana	20	20	100.0	0	79	-79
Nebraska	125	21	16.8	104	42	62
Nevada	0	0	0.0	0	59	-59
New Hampshire	63	24	38.1	39	156	-117
New Jersey	0	0	0.0	0	487	-487
New Mexico	0	0	0.0	0	32	-32
New York	2,274	1,764	77.6	510	474	36
North Carolina	1,784	1,274	71.4	510	86	424
North Dakota	0	0	0.0	0	8	-8
Ohio	3	3	100.0	0	102	-102
Oklahoma	139	125	89.9	14	63	-49
Oregon	0	0	0.0	0	144	-144
Pennsylvania	1,954	1,478	75.6	476	135	341
Rhode Island	0	0	0.0	0	90	-90
South Carolina	611	547	89.5	64	111	-47
South Dakota	59	46	78.0	13	15	-2
Tennessee	470	357	76.0	113	64	49
Texas	226	211	93.4	15	143	-128
Utah	0	0	0.0	0	356	-356
Vermont	110	74	67.3	36	86	-50
Virginia	165	109	66.1	56	290	-234
Washington	0	0	0.0	0	246	-246
West Virginia	230	230	100.0	0	14	-14
Wisconsin	0	0	0.0	0	69	-69
Wyoming	0	0	0.0	0	85	-85
State unknown*	0	0	--	0	0	0

*Students are reported in "State unknown" when an institution is unable to determine a student's home State.
--Not applicable.
NOTE: Excludes foreign students and students from outlying areas.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table 11.--Residence and migration of students from foreign countries enrolled in all institutions of higher education, by level of enrollment and State of attendence: Fall 1986

50 States and D.C.	All foreign students enrolled	Foreign students, by level			
		First-time freshmen	Undergraduate transfer students	First-professional students	Graduate students
Total	79,959	27,575	19,786	1,204	31,394
Alabama	657	249	163	5	240
Alaska	42	22	7	0	13
Arizona	1,603	775	408	4	418
Arkansas	428	168	171	0	89
California	17,580	7,094	6,476	191	3,819
Colorado	46	35	6	2	3
Connecticut	1,063	254	101	12	696
Delaware	156	55	19	0	82
District of Columbia	2,332	933	506	46	847
Florida	4,317	2,019	1,615	28	655
Georgia	1,283	382	240	42	619
Hawaii	717	418	205	0	94
Idaho	247	161	48	0	38
Illinois	2,881	598	552	87	1,644
Indiana	1,631	446	305	22	858
Iowa	1,296	367	369	38	522
Kansas	854	254	192	4	404
Kentucky	388	149	74	9	156
Louisiana	1,034	307	312	20	395
Maine	120	55	20	2	43
Maryland	1,571	374	254	13	930
Massachusetts	3,069	1,320	385	67	1,297
Michigan	3,462	742	675	94	1,951
Minnesota	845	278	236	15	316
Mississippi	409	63	109	6	231
Missouri	1,254	291	310	41	612
Montana	174	53	67	1	53
Nebraska	532	223	52	7	250
Nevada	145	32	55	0	58
New Hampshire	145	76	5	0	64
New Jersey	1,353	309	351	32	661
New Mexico	295	58	89	0	148
New York	6,588	2,016	1,200	92	3,280
North Carolina	1,597	556	312	35	694
North Dakota	249	104	85	0	60
Ohio	2,607	701	400	38	1,468
Oklahoma	985	440	11	9	525
Oregon	1,357	335	445	39	538
Pennsylvania	2,826	835	256	101	1,634
Rhode Island	337	83	39	1	214
South Carolina	508	161	98	13	236
South Dakota	152	48	59	3	42
Tennessee	760	288	218	5	249
Texas	4,910	1,967	1,107	47	1,789
Utah	840	298	226	4	312
Vermont	264	85	140	0	39
Virginia	1,161	418	117	6	620
Washington	1,160	226	334	5	595
West Virginia	274	69	28	1	176
Wisconsin	1,358	347	304	17	690
Wyoming	95	38	30	0	27

SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Technical Appendix

Statistics for this report are based on reports from institutions of higher education in response to the Residence of First-Time Students survey conducted by the Center for Education Statistics (CES) in the fall of 1986. This survey was conducted for the first time under the new Integrated Postsecondary Education Data System (IPEDS), and data will be collected biennially hereafter. Institutions of higher education were formerly surveyed under the Higher Education General Information Survey (HEGIS), and are those postsecondary institutions accredited at the college level by an agency recognized by the U.S. Department of Education.

This survey requested data about the State of residence of all degree-seeking students enrolled for the first time in the following categories of institutions: 4-year public and private and 2-year private nonprofit. The 2-year private for-profit institutions in the IPEDS universe were not surveyed. Data were reported by attendance level of the student when first admitted to the responding institution. The student levels include: undergraduate (first-time freshmen, students graduating from high school within the past twelve months, and transfer students), graduate, and first-professional levels.

The analyses in this report were further limited to first-time freshmen enrolled in the 2,743 institutions of higher education in the 50 States and the District of Columbia that responded to the Residence survey. Students from the outlying areas and students from the 50 States and the District of Columbia enrolled in the outlying areas and in foreign countries are excluded from the analysis. Foreign students are excluded from the analysis except as shown in table 11.

The Residence of First-Time Students survey was mailed during September 1986 to 5,126 postsecondary education institutions. Analysis of the returned survey forms resulted in deleting 398 institutions from the universe. These included institutions that had closed, did not offer postsecondary education programs, were duplicated on the file, or were not eligible for the Residence survey. Therefore, the final universe for the survey was 4,728 institutions (table A).

Table A.—Response to Residence of First-Time Students survey

Level of institution	Survey forms mailed	Respondents	Institutions deleted from file	Final universe	Response rate
Total	5,126	3,419	398	4,728	72.3
4-yr.	2,910	2,027	140	2,770	73.2
2-yr.	2,216	1,392	258	1,958	71.1

The overall response rate of 72.3 percent was based on the ratio of 3,419 respondents to the final universe of 4,728 institutions (2,770 4-year and above institutions and 1,958 2-year institutions).

The response rate for institutions of higher education (HEGIS schools) was much higher than for other postsecondary institutions (non-HEGIS Schools)--86.4 percent versus 42.2 percent (table A-1). Table A-2 shows similar data weighted by first-time freshmen enrollment. Whereas only 72.3 percent of all institutions responded to the Residence survey, responding institutions enrolled 85.6 percent of all first-time freshmen. For the institutions of higher education, 86.4 percent of the institutions responded, accounting for 91.7 percent of all first-time freshmen.

Imputation for nonresponding institutions are not included in this report. A report describing the fully imputed file, with a description of the imputation procedure, is planned for the summer of 1988.

Survey data were edited for internal consistency; that is, detailed data, by State, added to the total for each column. If the totals were missing, the computer generated totals were used and flagged as such. Data were also checked to ensure that the total freshmen count was greater than (or equal to) the count of first-time freshmen who had graduated from high school during the previous 12 months. The totals reported for first-time freshmen, graduate, and first-professional students were compared with the comparable totals reported on the Fall Enrollment survey and discrepancies were resolved.

The definitions and instructions for compiling IPEDS data have been designed to minimize comparability problems. However, postsecondary education institutions differ widely among themselves. As a result of these differences, comparisons of data provided by individual institutions may be misleading.

Table A-1.--Residence survey response rates, by State and accreditation (HEGIS) status: Fall 1986

United States and outlying areas	All institutions				HEGIS schools				Non-HEGIS schools			
	Total	Respondents	Non-respondents	Percent responding	Total	Respondents	Non-respondents	Percent responding	Total	Respondents	Non-respondents	Percent responding
Total	4,728	3,419	1,309	72.3	3,217	2,781	436	86.4	1,511	638	873	42.2
Alabama	98	81	17	82.7	73	70	3	95.9	25	11	14	44.0
Alaska	28	22	6	78.6	15	15	0	100.0	13	7	6	53.8
Arizona	39	29	10	74.4	29	24	5	82.8	10	5	5	50.0
Arkansas	40	33	7	82.5	32	30	2	93.8	8	3	5	37.5
California	524	280	244	53.4	285	231	54	81.1	239	49	190	20.5
Colorado	67	14	53	20.9	44	8	36	18.2	23	6	17	26.1
Connecticut	69	57	12	82.6	49	47	2	95.9	20	10	10	50.0
Delaware	12	9	3	75.0	9	8	1	88.9	3	1	2	33.3
District of Columbia	21	18	3	85.7	18	17	1	94.4	3	1	2	33.3
Florida	154	95	59	61.7	77	69	8	89.6	77	26	51	33.8
Georgia	108	77	31	71.3	71	62	9	87.3	37	15	22	40.5
Hawaii	19	13	6	68.4	13	12	1	92.3	6	1	5	16.7
Idaho	12	11	1	91.7	10	9	1	90.0	2	2	0	100.0
Illinois	236	192	44	81.4	155	154	1	99.4	81	38	43	46.9
Indiana	102	72	30	70.6	70	58	12	82.9	32	14	18	43.8
Iowa	83	48	35	57.8	59	46	13	78.0	24	2	22	8.3
Kansas	73	54	19	74.0	53	43	10	81.1	20	11	9	55.0
Kentucky	58	39	19	67.2	47	33	14	70.2	11	6	5	54.5
Louisiana	71	54	17	76.1	30	30	0	100.0	41	24	17	58.5
Maine	37	31	6	83.8	27	27	0	100.0	10	4	6	40.0
Maryland	68	60	8	88.2	56	53	3	94.6	12	7	5	58.3
Massachusetts	168	128	40	76.2	120	107	13	89.2	48	21	27	43.8
Michigan	142	105	37	73.9	91	85	6	93.4	51	20	31	39.2
Minnesota	116	91	25	78.4	68	60	8	88.2	48	31	17	64.6
Mississippi	54	50	4	92.6	40	39	1	97.5	14	11	3	78.6
Missouri	119	93	26	78.2	85	77	8	90.6	34	16	18	47.1
Montana	28	22	6	78.6	16	14	2	87.5	12	8	4	66.7
Nebraska	48	43	5	89.6	33	33	0	100.0	15	10	5	66.7
Nevada	13	8	5	61.5	9	7	2	77.8	4	1	3	25.0
New Hampshire	34	22	12	64.7	26	19	7	73.1	8	3	5	37.5
New Jersey	99	79	20	79.8	59	52	7	88.1	40	27	13	67.5
New Mexico	32	26	6	81.3	20	19	1	95.0	12	7	5	58.3
New York	377	248	129	65.8	280	199	81	71.1	97	49	48	50.5
North Carolina	131	126	5	96.2	117	116	1	99.1	14	10	4	71.4
North Dakota	28	28	0	100.0	19	19	0	100.0	9	9	0	100.0
Ohio	210	134	76	63.8	128	103	25	80.5	82	31	51	37.8
Oklahoma	48	43	5	89.6	43	42	1	97.7	5	1	4	20.0
Oregon	50	45	5	90.0	44	44	0	100.0	6	1	5	16.7
Pennsylvania	285	205	80	71.9	187	165	22	88.2	98	40	58	40.8
Rhode Island	15	14	1	93.3	12	12	0	100.0	3	2	1	66.7
South Carolina	67	62	5	92.5	57	56	1	98.2	10	6	4	60.0
South Dakota	31	24	7	77.4	18	16	2	88.9	13	8	5	61.5
Tennessee	100	82	18	82.0	74	67	7	90.5	26	15	11	57.7
Texas	195	147	48	75.4	155	135	20	87.1	40	12	28	30.0
Utah	19	11	8	57.9	11	8	3	72.7	8	3	5	37.5
Vermont	24	23	1	95.8	22	21	1	95.5	2	2	0	100.0
Virginia	102	63	39	61.8	72	50	22	69.4	30	13	17	43.3
Washington	69	55	14	79.7	51	48	3	94.1	18	7	11	38.9
West Virginia	38	32	6	84.2	27	25	2	92.6	11	7	4	63.6
Wisconsin	90	60	30	66.7	59	49	10	83.1	31	11	20	35.5
Wyoming	11	10	1	90.9	8	8	0	100.0	3	2	1	66.7
American Samoa	1	0	1	0.0	1	0	1	0.0	0	0	0	0.0
No. Marianas	2	1	1	50.0	2	1	1	50.0	0	0	0	0.0
Guam	2	2	0	100.0	2	2	0	100.0	0	0	0	0.0
Puerto Rico	1	1	0	100.0	1	1	0	100.0	0	0	0	0.0
Trust Territories	58	46	12	79.3	37	35	2	94.6	21	11	10	52.4
Virgin Islands	2	1	1	50.0	1	1	0	100.0	1	0	1	0.0

SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986.

Table A-2.--Residence survey response rates, weighted by first-time freshmen enrollment, by State and accreditation (HEGIS) status: Fall 1986

United States and outlying areas	All institutions			HEGIS institutions			Non-HEGIS institutions		
	First-time freshmen		Percent responding	First-time freshmen		Percent responding	First-time freshmen		Percent responding
	All institutions	Responding institutions		All institutions	Responding institutions		All institutions	Responding institutions	
Total	2,369,459	2,029,394	85.6	2,140,896	1,963,987	91.7	228,563	65,407	28.6
Alabama	39,319	34,704	88.3	35,761	33,818	94.6	3,558	886	24.9
Alaska	1,452	1,403	96.6	1,384	1,384	100.0	68	19	27.9
Arizona	57,476	51,515	89.6	54,424	51,449	94.5	3,052	66	2.2
Arkansas	17,536	14,605	83.3	16,189	14,585	90.1	1,347	20	1.5
California	291,550	263,915	90.5	269,705	259,726	96.3	21,845	4,189	19.2
Colorado	30,782	2,489	8.1	26,780	1,831	6.8	4,002	658	16.4
Connecticut	31,070	30,345	97.7	30,279	30,272	100.0	791	73	9.2
Delaware	7,654	7,238	94.6	7,464	7,223	96.8	190	15	7.9
District of Columbia	10,659	10,385	97.4	10,370	10,370	100.0	289	15	5.2
Florida	80,815	67,315	83.3	66,672	61,710	92.6	14,143	5,605	39.6
Georgia	45,348	36,963	81.5	36,142	33,450	92.6	9,206	3,513	38.2
Hawaii	9,402	8,551	90.9	8,733	8,432	96.6	669	119	17.8
Idaho	9,864	9,676	98.1	9,740	9,562	98.2	124	114	91.9
Illinois	108,226	106,079	98.0	104,931	104,931	100.0	3,295	1,148	34.8
Indiana	49,222	42,056	85.4	45,583	41,587	91.2	3,639	469	12.9
Iowa	36,482	29,962	82.1	34,468	29,962	86.9	2,014	0	0.0
Kansas	33,520	25,437	75.9	26,660	22,843	85.7	6,860	2,594	37.8
Kentucky	27,521	23,768	86.4	23,687	23,609	99.7	3,834	159	4.1
Louisiana	36,840	33,997	92.3	28,923	28,923	100.0	7,917	5,074	64.1
Maine	9,381	8,979	95.7	8,948	8,948	100.0	433	31	7.2
Maryland	33,075	32,502	98.3	32,642	32,464	99.5	433	38	8.8
Massachusetts	82,569	72,838	88.2	79,100	72,209	91.3	3,469	629	18.1
Michigan	99,573	88,887	89.3	97,203	88,093	90.6	2,370	794	33.5
Minnesota	55,586	48,165	86.7	44,055	40,388	[illegible].7	11,531	7,777	67.4
Mississippi	25,912	24,808	95.7	22,763	22,584	99.2	3,149	2,224	70.6
Missouri	37,469	35,505	94.8	35,622	34,873	97.9	1,847	632	34.2
Montana	6,405	5,447	85.0	5,520	5,425	98.3	885	22	2.5
Nebraska	19,304	18,643	96.6	14,316	14,316	100.0	4,988	4,327	86.7
Nevada	6,192	5,664	91.5	5,955	5,599	94.0	237	65	27.4
New Hampshire	11,064	7,913	71.5	9,439	7,875	83.4	1,625	38	2.3
New Jersey	47,087	41,586	88.3	44,655	41,165	92.2	2,432	421	17.3
New Mexico	8,728	8,657	99.2	8,260	8,223	99.6	468	434	92.7
New York	173,035	123,030	71.1	156,733	120,960	77.2	16,302	2,070	12.7
North Carolina	68,405	66,593	97.4	66,416	66,408	100.0	1,989	185	9.3
North Dakota	8,044	8,044	100.0	8,017	8,017	100.0	27	27	100.0
Ohio	110,445	71,017	64.3	86,511	70,453	81.4	23,934	564	2.4
Oklahoma	30,370	27,720	91.3	27,889	27,720	99.4	2,481	0	0.0
Oregon	25,521	25,036	98.1	25,036	25,036	100.0	485	0	0.0
Pennsylvania	110,262	88,687	80.4	97,263	87,865	90.3	12,999	822	6.3
Rhode Island	12,896	12,737	98.8	12,572	12,572	100.0	324	165	50.9
South Carolina	29,121	28,157	96.7	28,052	27,968	99.7	1,069	189	17.7
South Dakota	6,210	5,995	96.5	5,769	5,592	96.9	441	403	91.4
Tennessee	41,064	31,567	76.9	31,095	30,662	98.0	9,969	1,105	11.1
Texas	128,273	111,032	86.6	117,782	105,548	89.6	10,491	5,484	52.3
Utah	12,981	11,647	89.7	12,265	11,627	94.8	716	20	2.8
Vermont	7,010	6,841	97.6	6,908	6,841	99.0	102	0	0.0
Virginia	47,772	38,711	81.0	45,943	38,393	83.6	1,829	318	17.4
Washington	80,859	74,574	92.2	68,199	68,014	99.7	12,660	6,560	51.8
West Virginia	14,583	12,732	87.3	13,384	12,370	92.4	1,199	362	30.2
Wisconsin	52,845	48,853	92.4	48,981	46,057	94.0	3,864	2,796	72.4
Wyoming	5,204	4,569	87.8	4,553	4,553	100.0	651	16	2.5
American Samoa	270	0	0.0	270	0	0.0	0	0	0.0
No. Marianas	138	138	100.0	138	138	100.0	0	0	0.0
Guam	520	520	100.0	520	520	100.0	0	0	0.0
Puerto Rico	36,076	30,890	85.6	29,755	28,737	96.6	6,321	2,153	34.1
Trust Territories	214	49	22.9	214	49	22.9	0	0	0.0
Virgin Islands	258	258	100.0	258	258	100.0	0	0	0.0

NOTE: First-time freshmen data for 1986 Fall Enrollment survey include imputed data for nonresponding institutions.
SOURCE: U.S. Department of Education, Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Residence of First-Time Students survey, 1986, and Fall Enrollment Compliance survey, Fall 1986.